

## **ABSTRACT**

**A graphite nanosphere which has a structure wherein a plurality of pyramids of multilayer graphite are arranged without clearance, taking their apexes as a center and the external form thereof is nearly spherical as a whole or as a part; and a method for preparing the graphite nanosphere which comprises irradiating a carbon target with a CO<sub>2</sub> laser in an inert gas atmosphere under a pressure of 5 to 10 atm to thereby generate the carbon in an atomic or cluster form having a temperature of no less than 1000 °C.**